

## Rabbit HMGCS1 Polyclonal Antibody | anti-HMGCS1 antibody

HMGCS1 Polyclonal Antibody

|                               |                       |                                        |                                                    |
|-------------------------------|-----------------------|----------------------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA167201</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|-------------------------------|-----------------------|----------------------------------------|----------------------------------------------------|

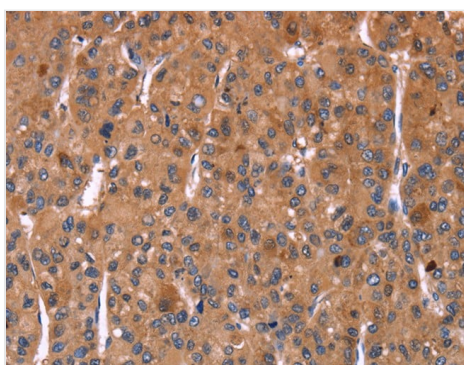
### PRODUCT SYNONYMS

HMGCS1; Polyclonal Antibody; HMGCS1 Polyclonal Antibody; HMGCS; anti-HMGCS1 antibody

### PRODUCT SPECIFICATIONS

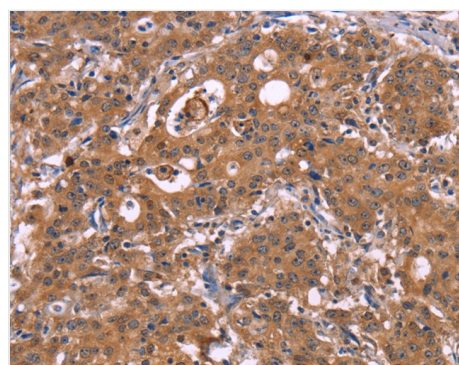
|                                                  |                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                    |
| Reactivity                                       | Human, Mouse, Rat                                                                         |
| Clonality                                        | Polyclonal                                                                                |
| Isotype                                          | IgG                                                                                       |
| Purity/Purification                              | Antigen affinity purification                                                             |
| Concentration                                    | 2.6mg/mL (varies by lot)                                                                  |
| Sequence Length                                  | 520                                                                                       |
| Applicable Applications for anti-HMGCS1 antibody | IHC (Immunohistochemistry), ELISA                                                         |
| Immunogen                                        | Synthetic peptide of human HMGCS1                                                         |
| Buffer                                           | PBS with 0.05% sodium azide, 50% glycerol, pH7.3                                          |
| Preparation and Storage                          | Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles. |

### IMAGES



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human liver cancer tissue using HMGCS1 Polyclonal Antibody at dilution 1:40



#### IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using HMGCS1 Polyclonal Antibody at dilution 1:40

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| Related Product Information for anti-HMGCS1 antibody | HMG-CoA Synthase exists as both a mitochondrial (mHMGCS) and cytoplasmic (cHMGCS) enzyme that condenses acetyl-CoA with acetoacetyl-CoA to form HMG-CoA. The HMG-CoA produced by cHMGCS is transformed into mevalonate by HMG-CoA reductase, which starts isoprenoid biosynthesis. End products of the isoprenoid pathway include cholesterol, ubiquinone, dolichol, isopentenyl adenosine and farnesyl groups. mHMGCS, together with HMG-CoA Lyase, is responsible for ketone body biosynthesis. mHMGCS is expressed in liver and kidney. Fasting, cAMP and fatty acids increase the level of transcription of mHMGCS, while feeding and insulin repress it. A regulatory element within the mHMGCS promoter confers transcriptional regulation by PPAR, RXR, COUP-TF and HNF-4. |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 148298764                                                                                                                                                             |
| NCBI GeneID                      | 3157                                                                                                                                                                  |
| NCBI Accession #                 | NP_002121.4                                                                                                                                                           |
| NCBI GenBank Nucleotide #        | NM_002130.7                                                                                                                                                           |
| Molecular Weight                 | 57,294 Da                                                                                                                                                             |
| NCBI Official Full Name          | hydroxymethylglutaryl-CoA synthase, cytoplasmic                                                                                                                       |
| NCBI Official Synonym Full Names | 3-hydroxy-3-methylglutaryl-CoA synthase 1 (soluble)                                                                                                                   |
| NCBI Official Symbol             | HMGCS1                                                                                                                                                                |
| NCBI Official Synonym Symbols    | HMGCS                                                                                                                                                                 |
| NCBI Protein Information         | hydroxymethylglutaryl-CoA synthase, cytoplasmic; 3-hydroxy-3-methylglutaryl coenzyme A (HMG-CoA) synthase; 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble) |
| UniProt Protein Name             | Hydroxymethylglutaryl-CoA synthase, cytoplasmic                                                                                                                       |
| UniProt Gene Name                | <b>HMGCS1</b>                                                                                                                                                         |
| UniProt Synonym Gene Names       | HMGCS; HMG-CoA synthase                                                                                                                                               |
| UniProt Entry Name               | HMCS1_HUMAN                                                                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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